

SHA

8-1-85

10-27-92

1-22-01

10-9-07

FHWA APPROVAL

DATE: 8-24-76

FHWA

6-8-90

see main box culvert sheets for

added reinforcing steel if this

height is exceeded.

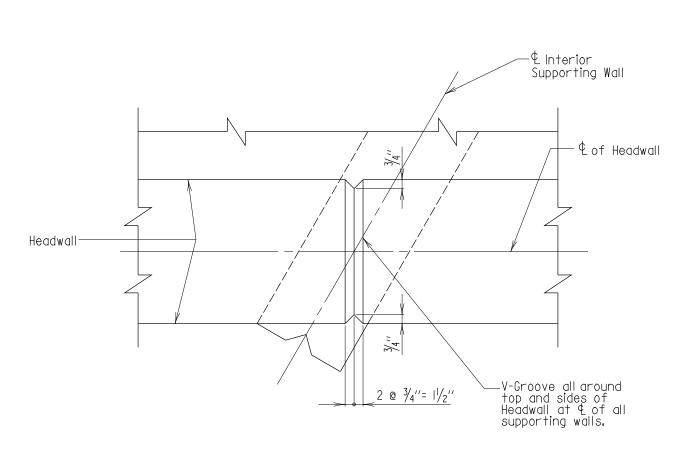
4.All keys are nominal size.

BOX CULVE

STANDARD NO. BC(6.01)-75-1

BOX CULVERT HEADWALL AND TOEWALL DETAILS

SHEET ____ OF__



<u>PLAN</u> Scale: I¹/₂''=1'-0''

APPROVAL		
C.S. Freedown DIRECTOR OFFICE OF BRIDGE DEVEL.		
DATE: 6/20/75		

REVISIONS SHA FHWA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

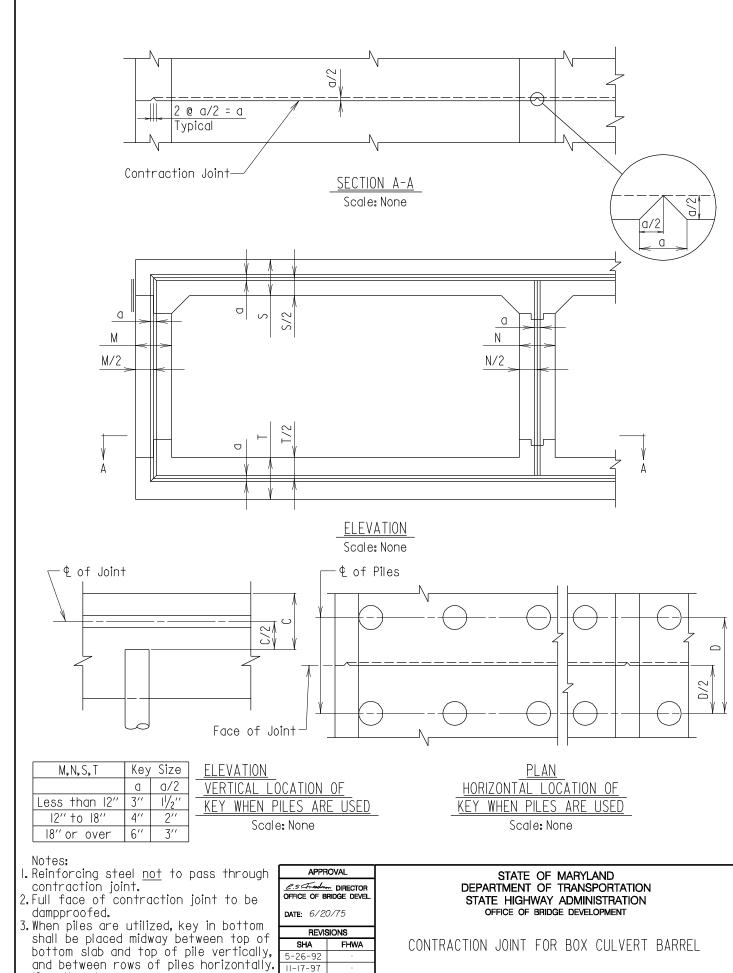
HEADWALL FOR MULTI-CELLED BOX CULVERT GROOVE DETAILS

FHWA APPROVAL DATE: 8-24-76

STANDARD NO. BC(6.02)-75-6

SHEET ___ OF__

CUL VERT.



STANDARD NO. BC(6.03)-75-9

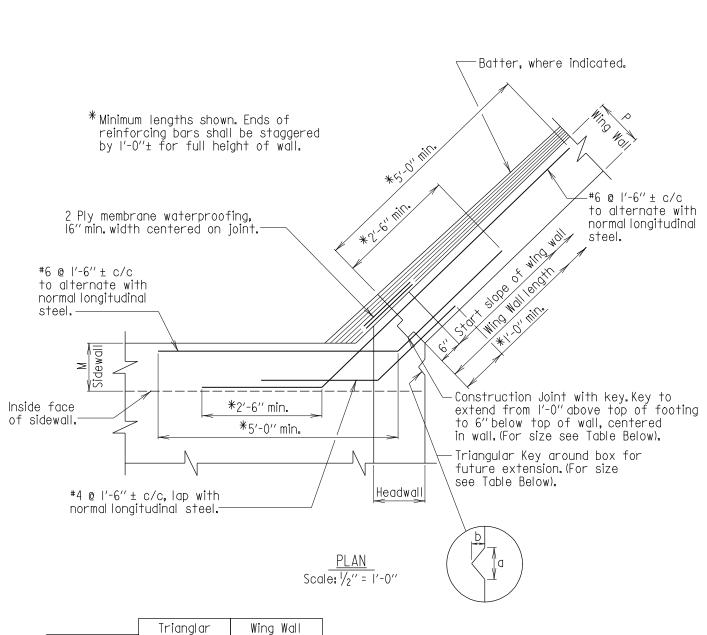
(See Above)

FHWA APPROVAL

DATE: 11-9-76

BOX CULVE

SHEET ____ OF__



M or P	Trianglar Key Size		Wing Wall Key Size
	а	b	
Less than 12"	3''	11/2"	3" x 11/2"
12" to 18"	4′′	2''	4'' x 2''
18" or over	6′′	3′′	6" x 3"

Notes:

- I. Normal reinforcing steel not shown.
- 2. All keys are nominal size.
- 3. This joint detail to be used for all walls less than 15' in length.

APPROVAL			
0.5 Treadown DIRECTOR OFFICE OF BRIDGE DEVEL			
DATE:	6/20/75		

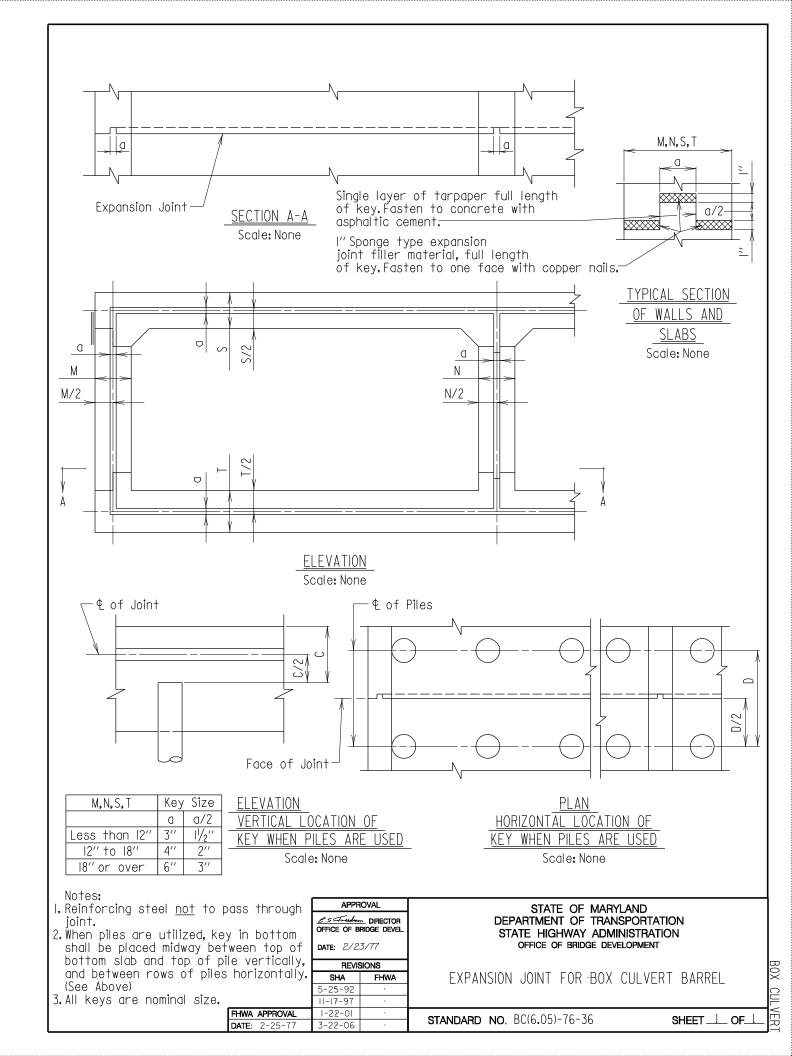
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

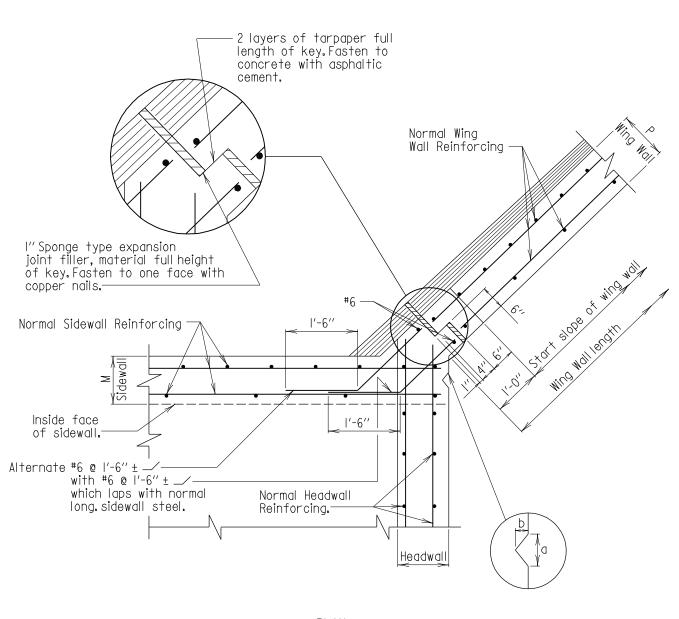
HEVISIONS							
SHA	FHWA	l BOX	CULVERT	WING	WALL	CONSTRUCTION	
I-85	6-8-90]					
		1					

SHEET ____ OF__

CUL

FHWA APPROVAL 7-15-94 **STANDARD NO.** BC(6.04)-75-10 DATE: 11-9-76 10-9-07





M or P	Triangular Key Size		
	а	Ь	
Less than 12"	3''	11/2"	
12" to 18"	4''	2''	
18" or over	6′′	3′′	

<u>PLAN</u> Scale: 1/2" = 1'-0"

Notes:

I. Reinforcing steel <u>not</u> to pass through

2. All keys are nominal size.

3. Expansion joint to extend from top of footing to top of wall.

4. This joint detail to be used for all walls greater than 15' in length.

APPROVAL			
C.S Freedman DIRECTOR OFFICE OF BRIDGE DEVEL			
DATE: 2/23/77			

 REVISIONS

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 FHWA

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

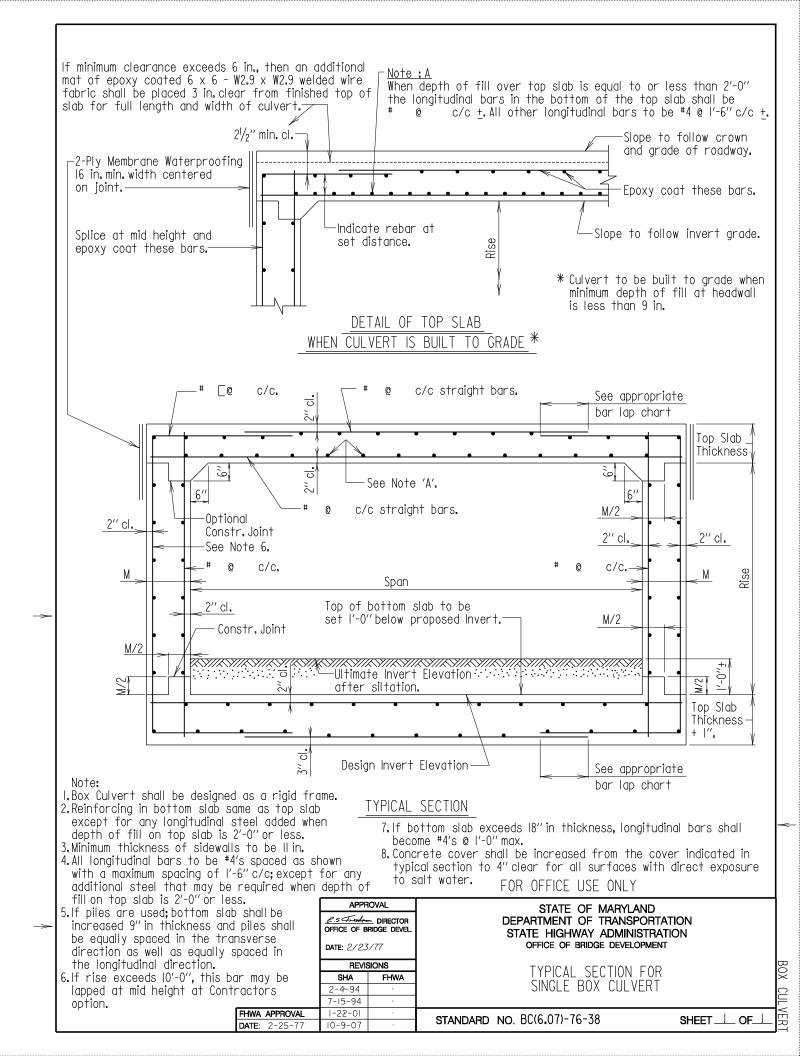
BOX CULVERT WING WALL EXPANSION JOINT

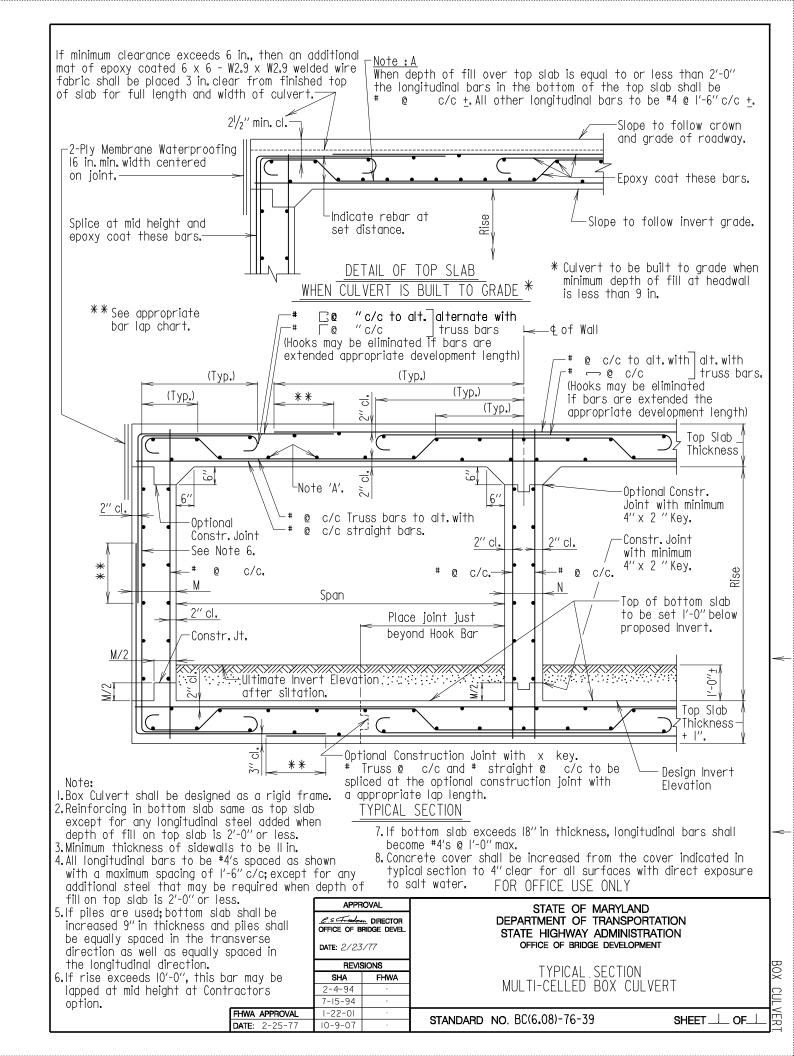
 FHWA APPROVAL
 I-22-01
 .

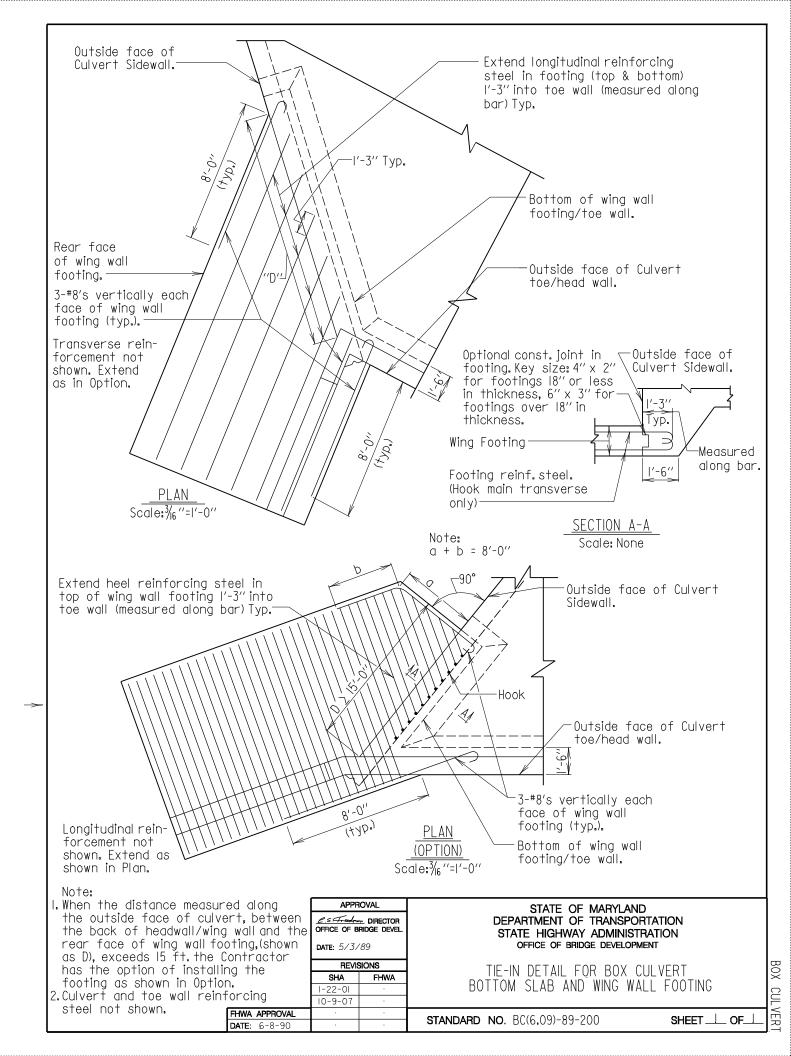
 DATE:
 2-25-77
 I0-9-07
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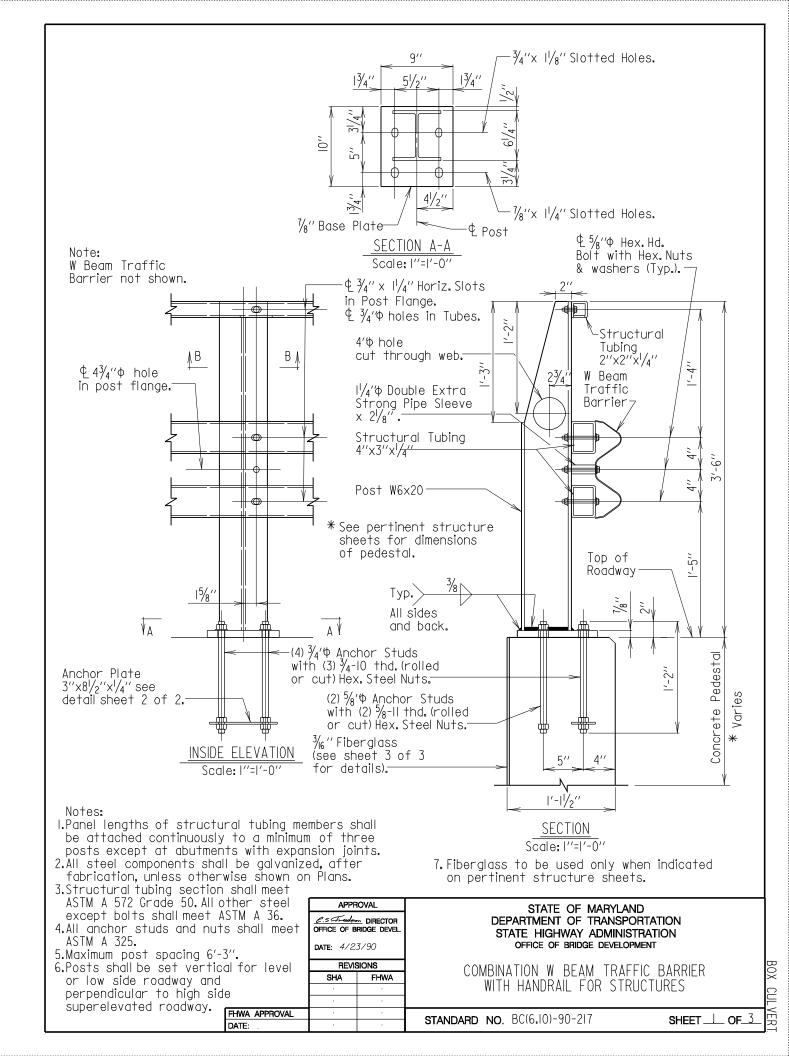
 STANDARD
 NO. BC(6.06)-76-37

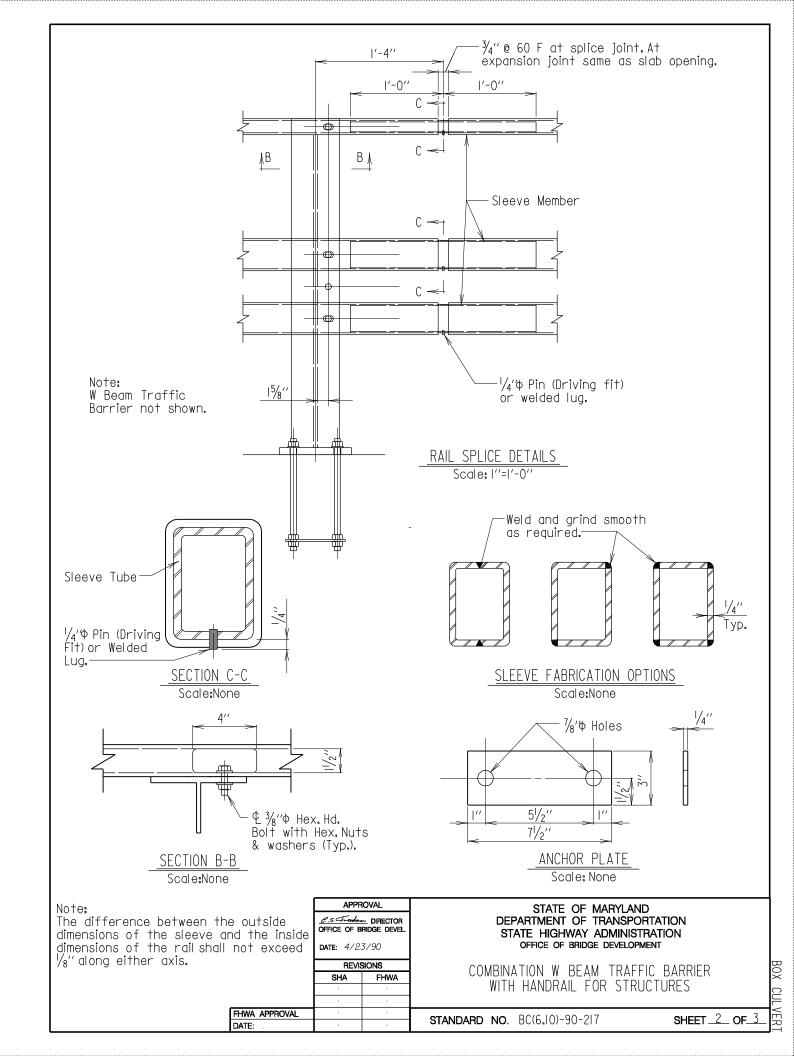
SHEET ____ OF__

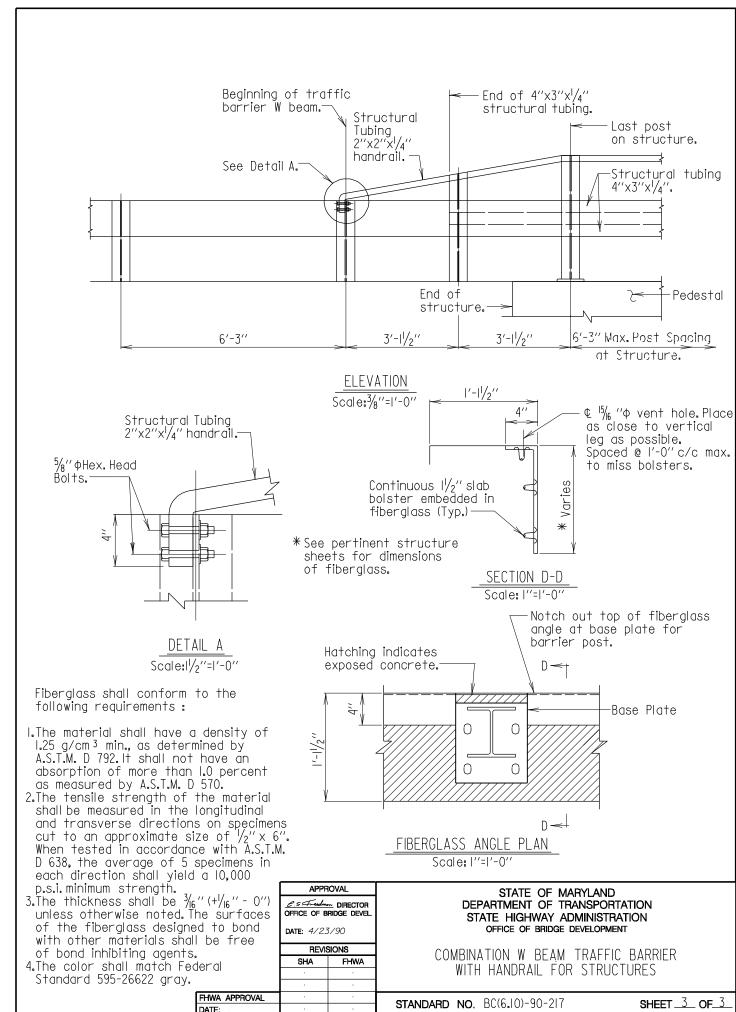




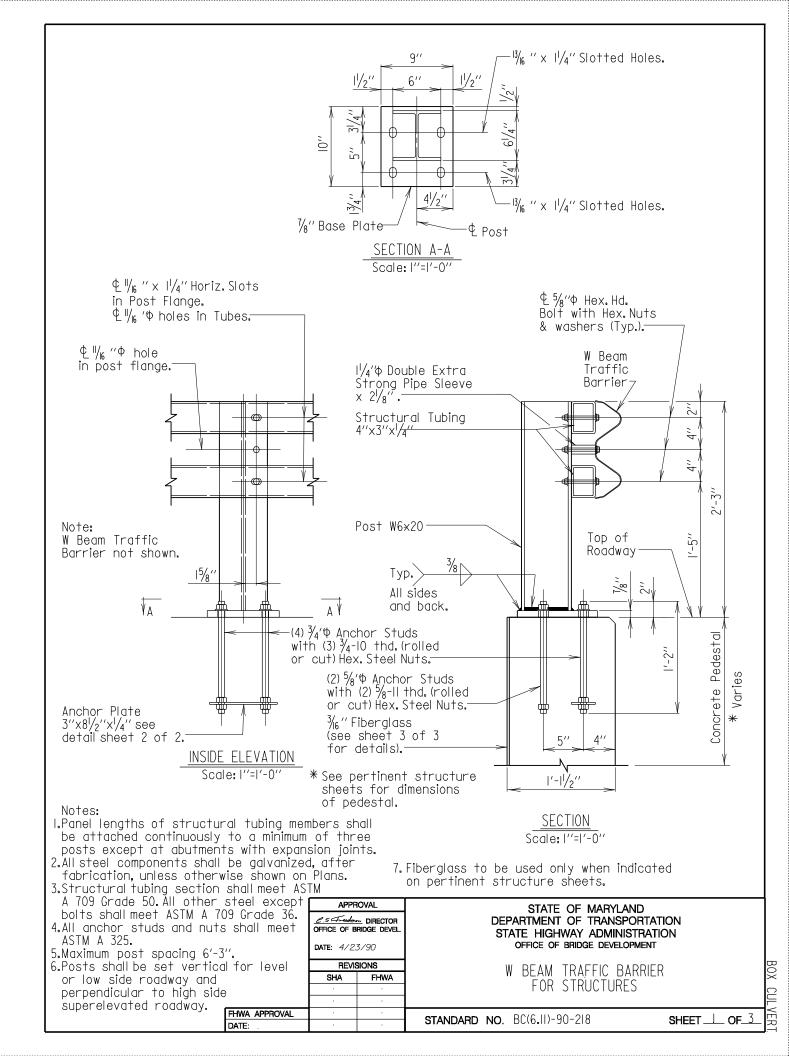


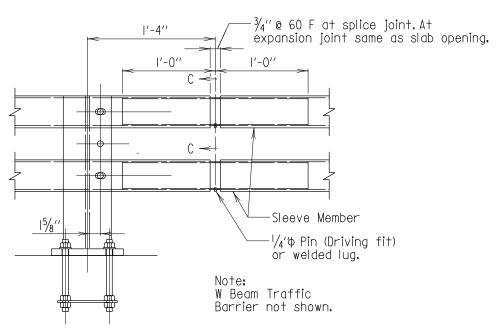




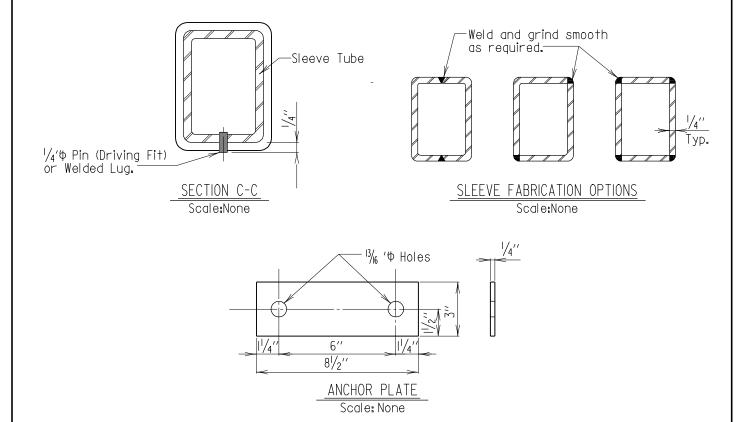


BOX CULVER





RAIL SPLICE DETAIL
Scale: I''=I'-0"



Note: The difference between the outside dimensions of the sleeve and the inside dimensions of the rail shall not exceed $\frac{1}{8}$ " along either axis.

FHWA APPROVAL

DATE:

APPROVAL P.S. Freedman DIRECTOR			
DATE: 4/23/90			

REVISIONS
SHA FHWA

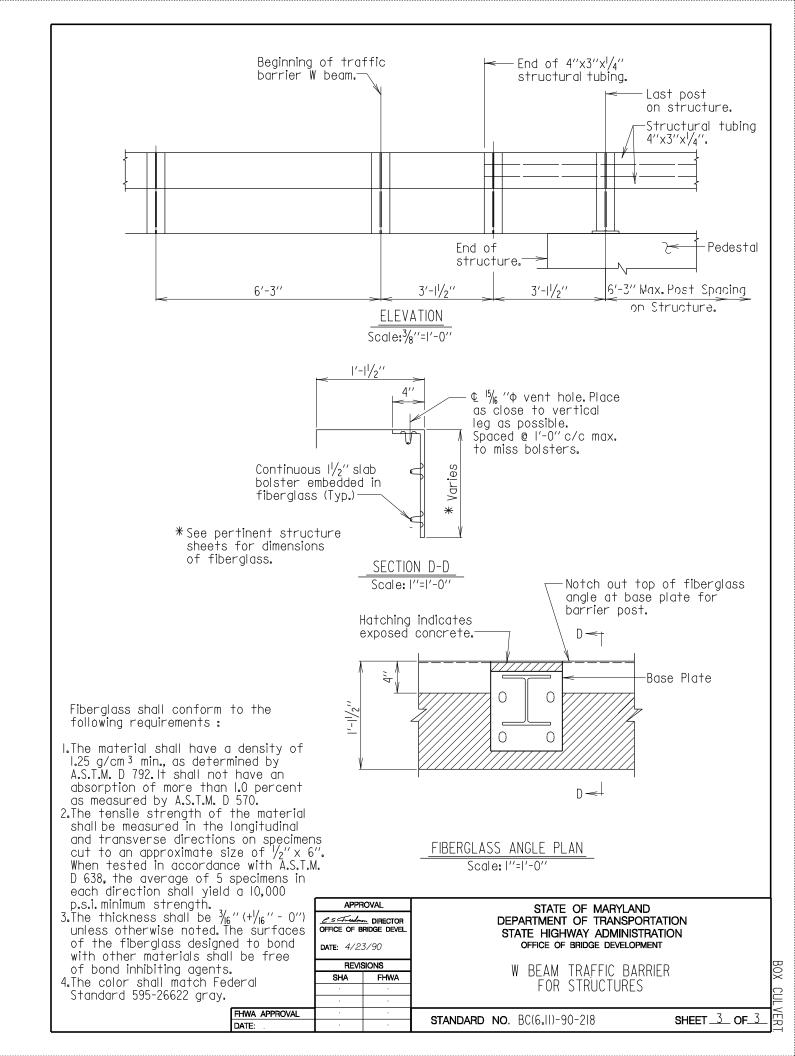
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

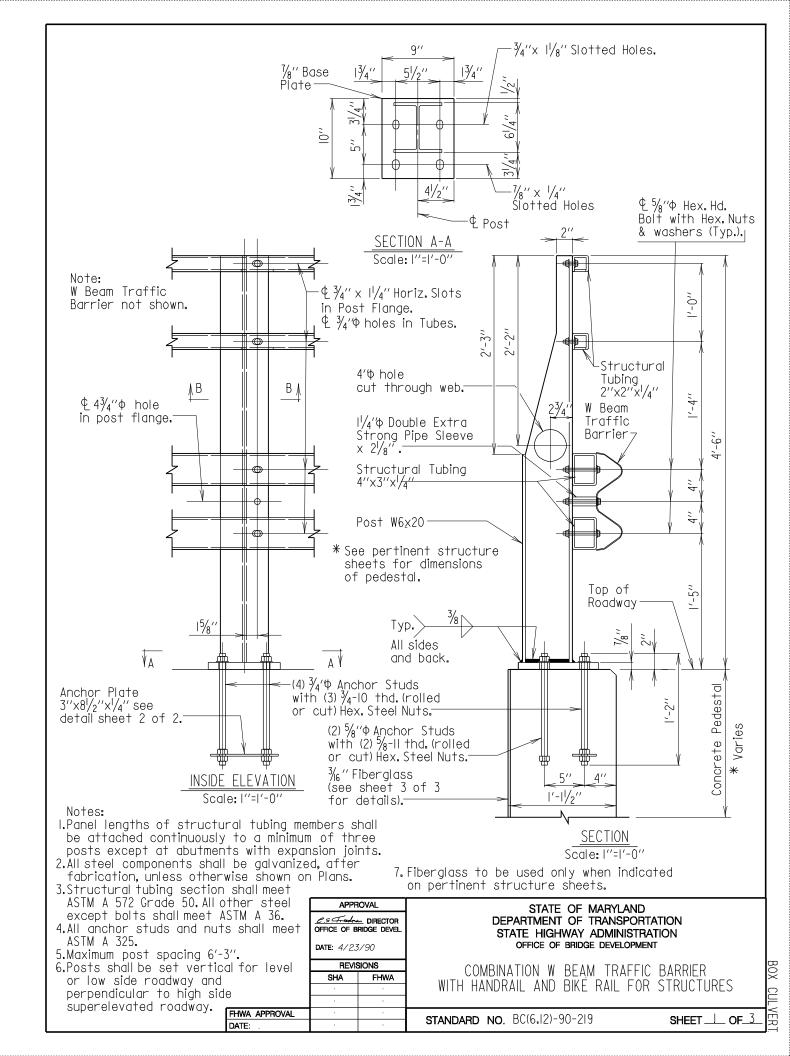
W BEAM TRAFFIC BARRIER FOR STRUCTURES

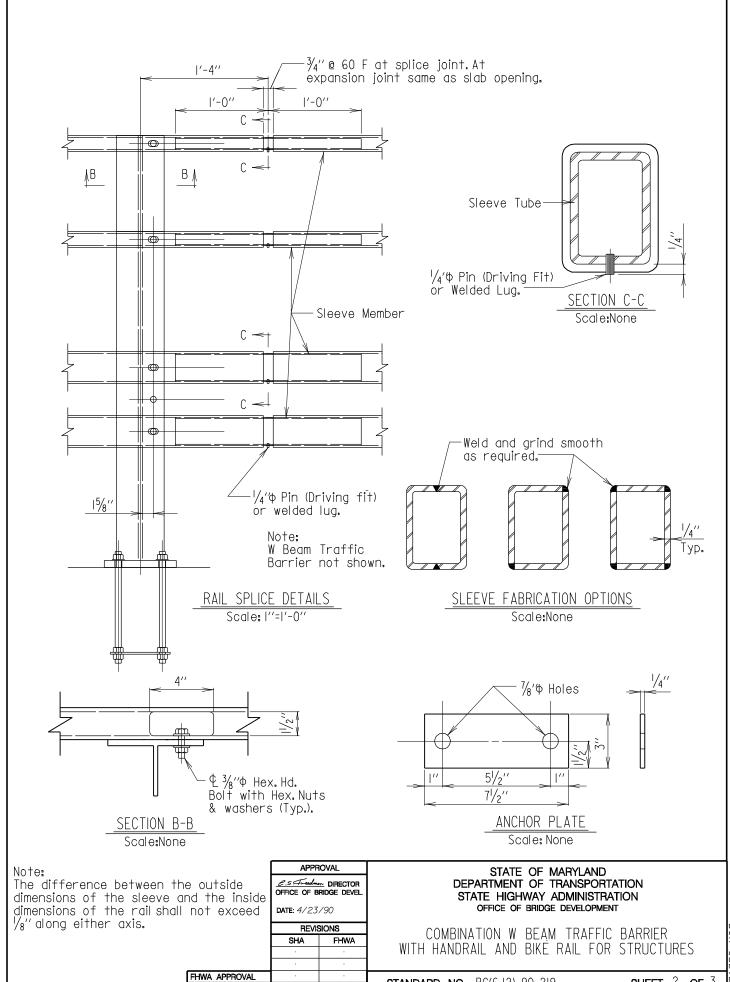
STANDARD NO. BC(6.11)-90-218

SHEET 2 OF 3

BOX CULVER







DATE:

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SHEET 2 OF 3

STANDARD NO. BC(6.12)-90-219

